

# INTERNATIONAL SEARCH REPORT

national Application No

PCT/US 98/06826

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12P21/02 C07K14/705 C07K14/505 C12N9/02 C12N15/11  
C12N5/06 C12N5/08 //(C12P21/02, C12R1:91)

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12N C12P C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>L.M. KHACHIGIAN ET AL.: "NUCLEAR FACTOR-KAPPA B INTERACTS FUNCTIONALLY WITH THE PLATELET-DERIVED GROWTH FACTOR B-CHAIN SHEAR-STRESS RESPONSE ELEMENT IN VASCULAR ENDOTHELIAL CELLS EXPOSED TO FLUID SHEAR STRESS."</p> <p>THE JOURNAL OF CLINICAL INVESTIGATION, vol. 96, no. 2, August 1995, pages 1169-1175, XP002075317</p> <p>NEW YORK, N.Y., US</p> <p>see the whole document</p> <p style="text-align: center;">---</p> <p style="text-align: center;">-/--</p>	1-12

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

24 August 1998

Date of mailing of the international search report

04/09/1998

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Ryckebosch, A

# INTERNATIONAL SEARCH REPORT

national Application No

PCT/US 98/06826

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	N. RESNICK ET AL.: "HEMODYNAMIC FORCES ARE COMPLEX REGULATORS OF ENDOTHELIAL GENE EXPRESSION." FASEB JOURNAL FOR EXPERIMENTAL BIOLOGY, vol. 9, no. 10, July 1995, pages 874-882, XP002075318 BETHESDA, MD US cited in the application see the whole document	1-12
A	N. RESNICK ET AL.: "PLATELET-DERIVED GROWTH FACTOR B CHAIN PROMOTER CONTAINS A CIS-ACTING FLUID SHEAR-STRESS-RESPONSIVE ELEMENT." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 90, May 1993, pages 4591-4595, XP002075319 WASHINGTON US see the whole document	1-12
X	T.J. GOODWIN ET AL.: "REDUCED SHEAR STRESS: A MAJOR COMPONENT IN THE ABILITY OF MAMMALIAN TISSUES TO FORM THREE-DIMENSIONAL ASSEMBLIES IN SIMULATED MICROGRAVITY." JOURNAL OF CELLULAR BIOCHEMISTRY, vol. 51, no. 3, March 1993, pages 301-311, XP002075320 NEW YORK, N.Y., US cited in the application see page 309, left-hand column, paragraph 2 - page 311, left-hand column, paragraph 1	13-15, 20,21, 24-26
X	WO 90 00190 A (THE GOVERNMENT OF THE UNITED STATES) 11 January 1990 cited in the application see page 3, line 1 - page 8, line 13; claims 17-22 see page 15, line 14 - line 29	13-15, 20,21, 24-26
A	WO 91 11535 A (CHILDRENS HOSPITAL OF LOS ANGELES) 8 August 1991 see claims 1-4	1-3
P, X	T.G. HAMMOND ET AL.: "EPITHELIAL CELL GENE EXPRESSION IS SHEAR STRESS RESPONSIVE." MOLECULAR BIOLOGY OF THE CELL, vol. 8, no. SUPPL., 13 - 17 December 1997, page 433a XP002075321 BETHESDA, MD, US see abstract nr.2517	13-26

# INTERNATIONAL SEARCH REPORT

Information on patent family members

national Application No

PCT/US 98/06826

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9000190 A	11-01-1990	US 4988623 A	29-01-1991
		AU 3969689 A	23-01-1990
		DE 68922216 D	18-05-1995
		DE 68922216 T	23-11-1995
		EP 0423227 A	24-04-1991
		JP 7004227 B	25-01-1995
		JP 4504499 T	13-08-1992
		US 5496722 A	05-03-1996
		US 5627021 A	06-05-1997
		US 5155034 A	13-10-1992
		US 5153132 A	06-10-1992
		US 5155035 A	13-10-1992
		US 5308764 A	03-05-1994
WO 9111535 A	08-08-1991	AU 7302191 A	21-08-1991